

**Safety Data Sheet - North American**

Effective date: 05/16/2013

SECTION 1 - Identification**Product Identifiers:**

Product trade name: FOAM BLAST* 476
Company product number: FB476PC
Other means of identification: Not Available

Recommended use of the chemical and restrictions on use:

Uses: Multipurpose foam control
Restrictions on use: None identified

Details of the supplier:

Manufacturer/Supplier: Emerald Performance Materials, LLC
2020 Front Street, Suite 100
Cuyahoga Falls, Ohio 44221
United States
Telephone: +001-330-916-6700
FAX: +001-330-916-6734

For further information about this SDS: Email: product.compliance@emeraldmaterials.com

Emergency telephone number: Chemtrec (24 hours): USA: 1-800-424-9300; International: +001-703-527-3887.

SECTION 2 - Hazard(s) identification

Potential physical and environmental effects: None known.

Potential health effects:

Acute health effects: May cause eye and skin irritation. High airborne concentrations of vapors resulting from heating, misting or spraying may cause irritation of the respiratory tract and mucous membranes.

Chronic health effects: Prolonged or repeated contact may irritate the skin, causing dermatitis.

See Section 11 for toxicological information.

SECTION 3 - Composition / information on ingredients**Mixture:**

No Hazardous Components found under applicable regulations.

Notes: No Additional Information

Amounts specified are typical and do not represent a specification. Remaining components are proprietary, non-hazardous, and/or present at amounts below reportable limits. Exact percentage values for components are proprietary in accordance with 29 CFR 1910.1200(i).

SECTION 4 - First-aid measures

Description of first aid measures:

General: If irritation or other symptoms occur or persist from any route of exposure, remove the affected individual from the area: see a physician/get medical attention.

Eye contact: Any material that contacts the eye should be washed out immediately with water. Get medical attention if symptoms occur.

Skin contact: Wash the affected area thoroughly with plenty of soap and water. Get medical attention if symptoms occur.

Inhalation: If affected, remove to fresh air. Get medical attention if symptoms occur.

Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse out the mouth with water. Get medical attention immediately.

Protection of first aid responders: Wear proper personal protective clothing and equipment.

Most important symptoms/effects, acute and delayed: Irritation. Pre-existing skin problems may be aggravated by prolonged or repeated contact. See section 11 for additional information.

Indication of immediate medical attention and special treatment needed, if necessary: Treat symptomatically.

SECTION 5 - Fire-fighting measures

NFPA flammability class: IIIB

Extinguishing media:

Suitable: NFPA Class IIIB (Combustible liquid): Use water spray, ABC dry chemical, foam or carbon dioxide. Water or foam may cause frothing. Use water to keep fire-exposed containers cool. Water spray may be used to flush spills away from exposures.

Unsuitable: None known.

Specific hazards arising from the chemical:

Unusual fire/explosion hazards: Product is not considered a fire hazard, but will burn if ignited. Closed container may rupture (due to build up in pressure) when exposed to extreme heat.

Hazardous combustion products: Irritating or toxic substances may be emitted upon burning, combustion or decomposition. See section 10 Hazardous decomposition products for additional information.

Special protective equipment and precautions for fire-fighters: Wear self-contained breathing apparatus (SCBA) equipped with a full facepiece and operated in a pressure-demand mode (or other positive pressure mode) and approved protective clothing. Personnel without suitable respiratory protection must leave the area to prevent significant exposure to hazardous gases from combustion, burning or decomposition. In an enclosed or poorly ventilated area, wear SCBA during cleanup immediately after a fire as well as during the attack phase of firefighting operations.

See section 9 for additional information.

SECTION 6 - Accidental release measures

Personal precautions, protective equipment and emergency procedures: See Section 8 for recommendations on the use of personal protective equipment. If spilled in an enclosed area, ventilate. Eliminate ignition sources.

Environmental precautions: Do not flush product into public sewer, water systems or surface waters.

Methods and materials for containment and cleaning up: Contain by diking with sand, earth or other non-combustible material. Wear proper personal protective clothing and equipment. Absorb spill with an inert material. Place into labeled, closed container; store in safe location to await disposal. Change contaminated clothing and launder before reuse. Spillage may cause SLIPPERY CONDITIONS (especially when wet).

SECTION 7 - Handling and storage

Precautions for safe handling: As with any chemical product, use good laboratory/workplace procedures. Do not cut, puncture, or weld on or near the container. Use under well-ventilated conditions. Wash thoroughly after handling this product. Always wash up before eating, smoking or using the facilities. Avoid eye contact. Avoid repeated or prolonged skin contact. Avoid inhalation of aerosol, mist, spray, fume or vapor. Avoid drinking, tasting, swallowing or ingesting this product. Wash contaminated clothing before reuse. Provide eyewash fountains and safety showers in the work area.

Conditions for safe storage, including any incompatibilities: Store cool and dry, under well-ventilated conditions. Store this material away from incompatible substances (see section 10). Do not store in open, unlabeled or mislabeled containers. Keep container closed when not in use. Empty container contains residual product which may exhibit hazards of product. Do not reuse empty container without commercial cleaning or reconditioning.

SECTION 8 - Exposure controls / personal protection

Control parameters:

Occupational exposure limits: No applicable exposure limits.

Exposure controls:

Appropriate engineering controls: Always provide effective general and, when necessary, local exhaust ventilation to draw spray, aerosol, fume, mist and vapor away from workers to prevent routine inhalation. Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the SDS. (Ventilation guidelines/techniques may be found in publications such as Industrial Ventilation: American Conference of Governmental Industrial Hygienists, 1330 Kemper Meadow Drive, Cincinnati, OH, 45240-1634, USA.) (<http://www.acgih.org/home.htm>).

Individual protection measures, such as personal protective equipment (PPE):

Eye/face protection: Wear eye protection.

Skin and body protection: Wear protective gloves. Use good laboratory/workplace procedures including personal protective clothing: labcoat, safety glasses and protective gloves.

Respiratory protection: Respiratory protection is not needed with proper ventilation. Wear an approved respirator (e.g., an organic vapor respirator, a full face air purifying respirator for organic vapors, or a self-contained breathing apparatus) whenever exposure to aerosol, mist, spray, fume or vapor exceed the applicable exposure limit(s) of any chemical substance listed in this SDS. Use respirator in accordance with manufacturer's use limitations and OSHA standard 1910.134 (29CFR).

Further information: Eyewash fountains and safety showers are recommended in the work area.

SECTION 9 - Physical and chemical properties

Form	Liquid	pH	6.8
Appearance	Clear amber	Relative density	0.96 (25 °C)
Odor	Mild fatty	Partition coefficient (n-octanol/water)	Not Available
Odor threshold	Not Available	%Volatile by weight	Not Available
Solubility in water	Dispersible	VOC	0.29% EPA Method 24
Evaporation rate	Not Available	Flash point	>200 °C (>392 °F) Pensky-Marten Closed Cup
Vapor pressure	Not Available	Boiling Point °C	Not Available
Vapor density	Not Available	Boiling Point °F	Not Available
Viscosity	250 Centipoise (25 °C)	Auto-Ignition temperature	Not Available
Melting point / Freezing point	Not Available	Flammability (solid, gas)	Not Applicable (liquid)
Oxidizing properties	Not oxidizing	Flammability or explosive limits	LFL/LEL Not Available UFL/UEL Not Available
Decomposition temperature	Not Available		

Other Information: Amounts specified are typical and do not represent a specification.

SECTION 10 - Stability and reactivity

Reactivity: None known.

Chemical stability: This product is stable.

Possibility of hazardous reactions: Hazardous polymerization will not occur.

Conditions to avoid: Excessive heat and ignition sources.

Incompatible materials: Avoid contact with strong oxidizing agents.

Hazardous decomposition products: Thermal decomposition may produce smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion.

Notes: No Additional Information.

SECTION 11 - Toxicological information

Caution must be exercised through the prudent use of protective equipment and handling procedures to minimize exposure.

Information on likely routes of exposure:

General: No Additional Information

Eyes: May cause eye irritation.

Skin: May cause skin irritation. Repeated or prolonged contact may cause skin irritation and dermatitis.

Inhalation: High airborne concentrations of vapors resulting from heating, misting or spraying may cause irritation of the

respiratory tract and mucous membranes.

Ingestion: Ingestion may cause irritation.

Symptoms/effects, acute and delayed: Irritation.

Acute toxicity Information: Not classified (based on available data, the classification criteria are not met).

No toxicity studies have been conducted on this product. ATEmix (oral) = >5000 mg/kg. ATEmix (dermal) = >2000 mg/kg.

Corrosion/Irritation/Sensitization Information:

Skin corrosion/irritation: Not classified (based on available data, the classification criteria are not met).

Serious eye damage/irritation: Not classified (based on available data, the classification criteria are not met).

Respiratory or skin sensitization: Not classified (based on available data, the classification criteria are not met).

Carcinogenicity/Mutagenicity/Reproductive toxicity Information:

Carcinogenicity: Not classified.

Carcinogenic status: The components of this mixture are not known to be listed or regulated by IARC, NTP, OSHA or ACGIH.

Germ cell mutagenicity: Not classified.

Reproductive toxicity: Not classified.

Specific target organ toxicity (STOT):

STOT-single exposure: Not classified (based on available data, the classification criteria are not met).

STOT-repeated exposure: Not classified (based on available data, the classification criteria are not met).

Aspiration hazard: Not classified (based on available data, the classification criteria are not met).

Other toxicity Information:

No additional information available.

SECTION 12 - Ecological information

Ecotoxicity: No ecological testing has been conducted on this product. Freshwater Fish Toxicity: The acute LC50 is >100 mg/L based on component data. Freshwater Invertebrates Toxicity: The acute EC50 is >100 mg/L based on component data.

Persistence and degradability: No specific information available.

Bioaccumulative potential: No specific information available.

Mobility in soil: No specific information available.

Other adverse effects: No Additional Information

SECTION 13 - Disposal considerations

For waste disposal purposes, this product is not known to be defined or designated as hazardous by current provisions of the Federal (EPA) Resource Conservation and Recovery Act (RCRA, 40CFR261). Incinerate waste product when in liquid form (i.e., as supplied) in a properly permitted (approved) incineration facility in accordance with federal, state and local regulations. Liquids cannot be disposed of in a landfill.

See Section 8 for recommendations on the use of personal protective equipment.

SECTION 14 - Transport information

The information below is provided to assist in documentation. It may supplement the information on the package. The package in your possession may carry a different version of the label depending on the date of manufacture. Depending on inner packaging quantities and packaging instructions, it may be subject to specific regulatory exceptions.

UN number: N/A

UN proper shipping name:

Not regulated - See Bill of Lading for Details

Transport hazard class(es):

U.S. DOT hazard class:	N/A
Canada TDG hazard class:	N/A
Europe ADR/RID hazard class:	N/A
IMDG Code (ocean) hazard class:	N/A
ICAO/IATA (air) hazard class:	N/A

A "N/A" listing for the hazard class indicates the product is not regulated for transport by that regulation.

Packing group: N/A

Environmental hazards:

Marine pollutant: Not Applicable

Hazardous substance (USA): Not Applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not Applicable

Special precautions for user: Not Applicable

Notes: No Additional Information

SECTION 15 - Regulatory information

Safety, health and environment regulations/legislation specific for the product:

U.S. federal and state regulations/legislation:

This MSDS has been prepared in accordance with the hazard criteria of the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

U.S. Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) Reportable Quantity (RQ):

Not Applicable

U.S. Superfund Amendments and Reauthorization Act (SARA):

SARA Section 313: This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and 40 CFR 372:

None Known

California Proposition 65:

Warning: The following ingredients present in the product are known to the state of California to cause Cancer: None known to be present or none in reportable amounts for occupational exposure as per OSHA's approval of the California Hazard Communication Standard, Federal Register, page 31159 ff, 6 June 1997.

Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards: None known to be present or none in reportable amounts for occupational exposure as per OSHA's approval of the California Hazard Communication Standard, Federal Register, page 31159 ff, 6 June 1997.

Notes: No Additional Information

The chemical identity of some or all components present is confidential business information (trade secret) and is being withheld as permitted by 29CFR1910.1200 (i).

Notes: No Additional Information

Canada regulations/legislation:

Canadian Ingredient Disclosure List: The following components are on the Canadian Ingredient Disclosure List (WHMIS): None Listed

Canadian Workplace Hazardous Material Information System (WHMIS) classification: Not controlled

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

Notes: No Additional Information

Mexico regulations/legislation:

This SDS contains the information required by NOM-018-STPS-2000 Workplace Hazardous Chemical Substances Communication and Identification Standard.

Chemical Inventories:

Regulation	Status
Canadian Domestic Substances List (DSL):	Y
Canadian Non-Domestic Substances List (NDSL):	N
European Inventory of Existing Chemical Substances (EINECS):	Y
European List of Notified Chemical Substances (ELINCS):	N
Europe REACH (EC) 1907/2006:	N
U.S. Toxic Substances Control Act (TSCA):	Y

A "Y" listing indicates all intentionally added components are either listed or are otherwise compliant with the regulation. A "N" listing indicates that for one or more components: 1) there is no listing on the public inventory; 2) no information is available; or 3) the component has not been reviewed.

Chemical Inventory notes: No Additional Information

Notes: No Additional Information

U.S. Superfund Amendments and Reauthorization Act (SARA):

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Chemical inventory notes: No Additional Information

Notes: No Additional Information

SECTION 16 - Other information

Notes: No Additional Information

MSDS Revision date: 05/16/2013

HMIS Rating

Health: 1 **Flammability:** 1 **Reactivity (Stability):** 0 **Personal Protection:** X

NFPA Rating

Health: 1 **Flammability:** 1 **Instability:** 0

Key: 0=Insignificant; 1=Slight; 2=Moderate; 3=High; 4=Extreme. An asterisk appearing after the HMIS Health numerical rating denotes a chronic hazard.

Hazardous Materials Identification System (HMIS), National Paint and Coating Association, rating applies to product "as packaged" (i.e., ambient temperature). Ratings are based upon HMIS® III and NFPA 704 (2007). An asterisk appearing after the HMIS Health® III numerical rating denotes a chronic hazard. National Fire Protection Association (NFPA) rating identifies the severity of hazards of material during a fire emergency (i.e., "on fire").

Legend:

* : Trademark owned by Emerald Performance Materials, LLC.
 ACGIH: American Conference of Governmental Industrial Hygienists
 A1: Confirmed human carcinogen
 A2: Suspected human carcinogen
 A3: Animal carcinogen
 ADR/RID: European dangerous goods transport road and rail regulations
 ATE: Acute Toxicity Estimate
 bw: body weight
 C: Ceiling Limit
 CAS No: Chemical Abstract Service Registry Number
 CERCLA: Comprehensive Environmental Response, Compensation and Liability Act (U.S. EPA)
 DOT: Department of Transportation (U.S.)
 EPA: Environmental Protection Agency (U.S.)
 GHS: Globally Harmonized System of Classification and Labeling of Chemicals
 HMIS: Hazardous Materials Identification System
 IARC: International Agency for Research on Cancer
 Group 1: Carcinogenic to humans
 Group 2A: Probably carcinogenic to humans
 Group 2B: Possibly carcinogenic to humans
 Group 3: Unclassified as a carcinogen to humans
 IATA: International Air Transport Association
 ICAO: International Civil Aviation Organization
 IMDG Code: International Maritime Dangerous Goods code
 LFL/LEL: Lower Flammable Limit/Lower Explosive Limit
 MSDS: Material Safety Data Sheet
 NFPA: National Fire Protection Association
 NIOSH: National Institute for Occupational Safety and Health
 NTP: National Toxicology Program
 N/A: Not Applicable
 N/E: None Established
 OEL: Occupational Exposure Limits
 OSHA: Occupational Safety and Health Administration (U.S.)
 PEL: Permissible Exposure Limit
 PNOS: Particles (Insoluble or Poorly Soluble) Not Otherwise Specified
 RQ: Reportable Quantity
 RTK: Right To Know
 S or Skin: Skin notation refers to the potential significant contribution to the overall exposure by the cutaneous route including mucous membranes and the eyes and by direct skin contact with the substance
 SARA: Superfund Amendments and Reauthorization Act (U.S. EPA)
 SDS: Safety Data Sheet

STEL: Short Term Exposure Limit (15 minute Time Weighted Average)
TDG: Canadian Transportation of Dangerous Goods Act and Regulations
TLV: Threshold Limit Value
TWA: Time Weighted Average (exposure for 8-hour workday)
UFL/UEL: Upper Flammable Limit/Upper Explosive Limit
UN: United Nations
U.S.: United States
WHMIS: Canadian Workplace Hazardous Materials Information System

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